LPCET LIBRARY BANGALORE-49

CBCS SCHEME

BCV657D

USN | | | | | | | | | | |

Question Paper Version : A

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2026
Quality Control and Quality Assurance

Time: 1 hr. Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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1. Which of the following is NOT a Quality Guru?
   a) Philip B. Crosby
   b) W. Edwards Deming
   c) Peter Drucker
   d) Joseph M. Juran

2. The PDCA cycle stands for
   a) Plan, Do, Check , Act
   b) Plan, Do, Check, Adjust
   c) Plan, Design, Check, Act
   d) Perform, Do, Check, Act

3. Which of the following definition best describes Quality?
   a) The ability of a product to meet Customers' needs and expectation
   b) The maximum possible output
   c) The durability of a product
   d) The value of a product

4. Which of these is a reason for poor Quality in construction?
   a) Inadequate material procurement
   b) Lack of skilled labor
   c) Improper handling of resources
   d) All of these

5. Quality Control (QC) refers to :
   a) A proactive approach to prevent defects
   b) A reactive approach to identify defects in products
   c) Creating a culture of continuous improvement
   d) None of these

15. Which of the following is a key benefit of ISO 9000 certification?
    a) Increased brand awareness
    b) Improved product quality and customer satisfaction
    c) Lower production costs
    d) Reduction in material waste

16. Which standard is part of the ISO 9000 family of Quality Management systems?
    a) ISO 9001 b) ISO 14001 c) ISO 16001 d) ISO 12000

17. Which of these is a focus of ISO 14000 standards?
    a) Environmental Management b) Financial Auditing
    c) Product Testing d) Employee Training

18. The vision and quality policy of an Organisation should be :
    a) Defined by External stakeholders
    b) General statements without specific goals
    c) Clear, measurable and aligned with strategic objectives
    d) Focused only on customer satisfaction

19. Which of the following is an essential part of Quality Management?
    a) Cost cutting measures b) Employee Training and Involvement
    c) Minimize production time d) Reducing product features

20. In which of the following areas does TQM primarily focus?
    a) Product design and delivery b) Employee skills and involvement
    c) Customer relationships and feedback d) All of these

21. What is the main goal of Statistical Quality Control (SQC)?
    a) To measure customer satisfaction
    b) To identify and control variation in processes
    c) To reduce costs in production
    d) To design new products

22. What does sampling refer to in SQC?
    a) Measuring all products in the population
    b) Selecting a portion of products for analysis
    c) Randomly Inspecting products
    d) Analyzing customer feedback

23. Which of the following is a statistical parametric used in SQC to measure data dispersion?
    a) Mean b) Variance c) Median d) Mode

24. The measure of Central Tendency refers to :
    a) The spread or variability of data
    b) The most common value in the dataset
    c) The average or middle value in a dataset
    d) The highest value in the dataset

35. Which of the following is NOT a key step in the quality assurance process in construction?
    a) Pre – qualification of suppliers
    b) Inspection of completed work
    c) Use of defective materials
    d) Regular monitoring of processes

36. Which of the following is a norm for accepting construction materials according to IS codes?
    a) Visual Inspection only
    b) Using only recycled materials
    c) Meeting strength , durability and other specified properties
    d) Random selection

37. Which of the following testing methods used for concrete quality control?
    a) Rebound Hammer Test
    b) Impact Test
    c) Hardness Test
    d) Tensile Test

38. Which of these actions ensures proper handling of concrete on a construction site?
    a) Adequate curing and proper storage
    b) Mixing until the material is homogeneous
    c) Maintaining the correct proportions of materials
    d) All of these

39. What is the primary goal of quality control in construction?
    a) Minimize project costs
    b) Ensure that the construction meets safety and performance standards
    c) Speed up construction
    d) Reduce waste only

40. What is a Non – Conformance Report used for in construction?
    a) To track time delays
    b) To report deviations from quality standards
    c) To manage the construction budget
    d) To monitor employee attendance

41. Which stage of construction is concerned with designing the concept of the buildings?
    a) Conceptual Design
    b) Preliminary Design
    c) Detailed Design
    d) Construction

42. Which of the following is tested during the testing stage of construction?
    a) Material strength
    b) Site safety
    c) Structural integrity
    d) All of these

43. Which Non – destructive testing method is used to assess concrete quality?
    a) Rebound Hammer Test
    b) Flexural Strength Test
    c) Tensile Strength Test
    d) Impact Test

44. The Rebound Hammer Test in concrete is used to assess :
    a) Workability
    b) Compressive Strength
    c) Durability
    d) Adhesion